

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2000</h2> <p style="font-size: small; margin: 0;">Patent fees are subject to annual revision. Small Entity payments <u>must</u> be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB09-12. See 37 C.F.R. §§ 1.27 and 1.28.</p>		<p>Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Application Number</td><td></td></tr> <tr><td>Filing Date</td><td></td></tr> <tr><td>First Named Inventor</td><td>Pasi Loukas</td></tr> <tr><td>Examiner Name</td><td></td></tr> <tr><td>Group / Art Unit</td><td></td></tr> <tr><td>Attorney Docket No.</td><td></td></tr> </table>		Application Number		Filing Date		First Named Inventor	Pasi Loukas	Examiner Name		Group / Art Unit		Attorney Docket No.	
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TOTAL AMOUNT OF PAYMENT (\$) 345		<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; margin-right: 5px;">1c823 U.S. PTO</div> </div>													

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																																																																		
<p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number </p> <p>Deposit Account Name </p> <p><input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:</p> <p style="margin-left: 20px;"> <input checked="" type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other </p>	<p>3. ADDITIONAL FEES</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - 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SUBMITTED BY		Complete if applicable	
Name (Print/Type)	Pasi Loukas	Registration No. (Attorney/Agent)	Telephone
Signature	Pasi Loukas		+358-16-3799/136
		Date	5/30/2000

WARNING:

Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

**STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) & 1.27(b))—INDEPENDENT INVENTOR**

Docket Number (Optional)

Applicant, Patentee, or Identifier: Pasi Loukas

Application or Patent No.: _____

Filed or Issued: _____

Title: Variable Wavelength Impulse Transmission

As a below named inventor, I hereby state that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the Patent and Trademark Office described in:

- ☒ the specification filed herewith with title as listed above.
☒ the application identified above.
☐ the patent identified above.

I have not assigned, granted, conveyed, or licensed, and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☒ No such person, concern, or organization exists.
☐ Each such person, concern, or organization is listed below.

Separate statements are required from each named person, concern, or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

Pasi Loukas
NAME OF INVENTOR

NAME OF INVENTOR

NAME OF INVENTOR

Pasi Loukas
Signature of inventor

Signature of inventor

Signature of inventor

5/30/2000
Date

Date

Date

A

PTO/SB/05 (4/98)
Approved for use through 09/30/2000. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Attorney Docket No.

First Inventor or Application Identifier

Pasi Loukas

Title

Variable Wavelength Impulse Transmission

Express Mail Label No.

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ * Fee Transmittal Form (e.g., PTO/SE/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 7]
(preferred arrangement set forth below)
- Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 2]
4. Oath or Declaration [Total Pages 2]
- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 C.F.R. § 1.6
(for continuation/divisional with Box 16 completed)
- i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application
see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b)

5. ☐ Microfiche Computer Program (*Appendix*)
6. Nucleotide and/or Amino Acid Sequence Submission
(*if applicable, all necessary*)
- a. ☐ Computer Readable Copy
- b. ☐ Paper Copy (identical to computer copy)
- c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
 8. ☐ 37 C.F.R. §3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
 9. ☐ English Translation Document *(if applicable)*
 10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
 11. ☐ Preliminary Amendment
 12. ☐ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
 13. ☒ * Small Entity Statement(s) ☒ Statement filed in prior application, Status still proper and desired
(PTOSB/09-12)
 14. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
 15. ☒ Other: REPORT OF CORRECTIONS
MADE TO PROVISIONAL
APPLICATION

* NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:
- | | | | | | | |
|--------------------------|--------------|--------------------------|------------|--------------------------|----------------------------|--------------------------------|
| <input type="checkbox"/> | Continuation | <input type="checkbox"/> | Divisional | <input type="checkbox"/> | Continuation-in-part (CIP) | of prior application No: _____ |
|--------------------------|--------------|--------------------------|------------|--------------------------|----------------------------|--------------------------------|

Prior application information: **Examiner**

Group / Art Unit:

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

- ☐ *Customer Number or Bar Code Label* or ☒ *Correspondence address below*
(Insert Customer No. or Attach bar code label here)

Name _____

Pasi Loukas

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Fax

+358-16-3799579

Name (Prtnr/Type)

Pasi Loukas

Registration No. (Attorney/Agent)

Signature

Pass. Laukas

Date _____

5/30/2000

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**REPORT OF CORRECTIONS MADE TO PROVISIONAL PATENT APPLICATION WHICH
BENEFITS CLAIMED IN THIS APPLICATION**

I request your permission for the following corrections that I have made to provisional patent application which benefits are claimed in this application:

-I am Finnish citizen and because of language difficulties I have used erroneously the word "bandwidth" where I meant "wavelength". From the context can be seen in each case that I have done it consistently every time and meant "wavelength". So I have replaced in the text the word "bandwidth" every time it is mentioned with the word "wavelength".

-In the first paragraph of the specification was a sentence containing technical error. It was in original form as follows (the word bandwidth replaced with wavelength):

"In case A if there are number n separate impulse wavelengths, then one impulse is able to carry number n bits of data."

I have corrected it. The sentence is not relevant for the subject matter, it is only for to help reader get better idea of it. If you cannot accept it, it can be stricken through. The sentence is in new form as follows:

"In case A if there are number n separate impulse wavelengths, then one impulse is able to carry number of bits of data equal to 2-based logarithm of n ."

If the correction cannot be accepted, it is needful also to strike through the next sentence after that (due to the context), which is below:

"In case B the transmission principle is the same as in case A, except that there are no absolute limit how many bits of data one impulse can carry, it is limited only by the transmission device's ability to distinguish closely adjacent wavelength impulses."

-In drawings I have moved the headers and the description footnotes to the description section of figures. Also I have corrected the erroneous unit marking "V or dB" as "V" in the vertical axis in figures 1 and 2A, 2B, 2C.

-In addition to the above mentioned corrections, I have corrected some misspellings and made the layout better conform to the formal requirements.

With respect



Pasi Loukas, Finland

09587270-060500